

Beamline 10.3.2

Environmental and Materials Science, Micro X-Ray Absorption Spectroscopy

Operational	Now
Source characteristics	Bend magnet (beamline optics collect 0.166 horizontal mrad)
Energy range	3–17 keV
Monochromator	White light and monochromatic, with Si(111) four-crystal monochromator
Calculated flux (1.9 GeV, 400 mA)	1×10^{10} photons/s/0.03%BW into 5- μ m spot
Resolving power ($E/\Delta E$)	7000
Endstations	Hutch with optical table
Characteristics	Sample mounted on x-y translation stage
Detectors	Seven-element Ge solid-state detector
Spot size at sample	Adjustable from 3 x 3 μ m (slit down) up to 14 x 16 μ m (full flux)
Experimental techniques	Custom designed for micro x-ray absorption spectroscopy
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